

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v15

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x+8}{5}\right] - 3}{6}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 3 \cdot \left(f\left[\frac{x-8}{2}\right] + 6 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 4 \cdot f[6x + 9] - 3$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

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Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 3 \cdot \left(f\left[\frac{x}{5} + 8\right] - 4 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[9(x+7)]}{4} + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 6 \cdot f\left[\frac{x}{4} - 9\right] + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.